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NOTICE OF ALLOWANCE AND FEE(S) DUE

136

7590

03/09/2010

JACOBSON HOLMAN PLLC 400 SEVENTH STREET N.W. SUITE 600 WASHINGTON, DC 20004

EXAMINER				
LOW, LINDSAY M				
ART UNIT	PAPER NUMBER			

3721 DATE MAILED: 03/09/2010

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	10/500.148	04/04/2005	Torbiorn Jacobsson	P69855US0	5249

TITLE OF INVENTION: COMPRESSED AIR PERCUSSIVE MECHANISM FOR A DOWN HOLE HAMMER AND DOWN HOLE HAMMER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/09/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

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JACOBSON HOLMAN PLLC 400 SEVENTH STREET N.W. SUITE 600			nane	ers. Each additiona	Lpaper	icate cannot be used f , such as an assignme ling or transmission.	for any other accompanying ent or formal drawing, mus
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WASHINGTON	N, DC 20004						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/500,148	04/04/2005		Torbjorn Jacobsson			P69855US0	5249
TITLE OF INVENTION	N: COMPRESSED AIR F	ERCUSSIVE MECHAN	ISM FOR A DOWN HOL	E HAMMER AND	DOW	N HOLE HAMMER	
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	06/09/2010
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
LOW, LIN	NDSAY M	3721	173-017000	•			
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence)		`	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,				
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	THE PATENT (print or type data will appear on the pa	atent. If an assign	ee is id	lentified below, the d	ocument has been filed fo
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Please check the appropri	riate assignee category on	categories (will not be pr	inted on the patent) :	Individual 🗖 Co	ornorati	on or other private gr	oup entity 🖵 Government
4a. The following fee(s) Issue Fee	are submitted:	40	 Payment of Fee(s): (Plea A check is enclosed. 	ise iirst reappiy ai	ıy prev	lously paid issue fee	snown above)
	No small entity discount p		Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
☐ Advance Order -	# of Copies		overpayment, to Depo	sit Account Number	ge the er	required fee(s), any de (enclose a	n extra copy of this form).
	ns SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no long	-			
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This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22:	itiality is governed by 35 d application form to the ions for reducing this bu. Jirginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th NOT SEND FEES OR	on is required to obtain or r 1.1.4. This collection is est depending upon the indive Chief Information Office COMPLETED FORMS TO	etain a benefit by t imated to take 12 n idual case. Any co er, U.S. Patent and D THIS ADDRESS	he pub minutes omment Traden S. SEN	ic which is to file (and to complete, including to on the amount of the nark Office, U.S. Dep D TO: Commissioner	d by the USPTO to process ng gathering, preparing, and me you require to complete artment of Commerce, P.O for Patents, P.O. Box 1450

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10/500,148	10/500,148 04/04/2005 Torbjorn Jacobsson		P69855US0	5249
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JACOBSON HOLMAN PLLC			LOW, LIN	IDSAY M
400 SEVENTH ST	TREET N.W.		ART UNIT	PAPER NUMBER
SUITE 600 WASHINGTON, DC 20004			3721 DATE MAILED: 03/09/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 236 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 236 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/500,148	JACOBSSON ET AL.
Notice of Allowability	Examiner	Art Unit
	LINDSAY M. LOW	3721
The MAILING DATE of this communication appearule All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comm IGHTS. This application is and MPEP 1308.	n this application. If not included unication will be mailed in due course. THIS
2. ☑ The allowed claim(s) is/are <u>1,2 and 4-9</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	be been received. been received in Application	on No
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EX	AMINER'S AMENDMENT or NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	. , .	, decidate in the delicional
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Review	w (PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
 (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) 	.84(c)) should be written on t	he drawings in the front (not the back) of
each sheet. Replacement sheet(s) should be labeled as such in t 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.	nformal Patent Application Summary (PTO-413), /Mail Date · Amendment/Comment · Statement of Reasons for Allowance ·

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: the primary reason for allowance is the inclusion of a sealed air cushion inside a pneumatic down-the-hole drill that is formed by a hammer end of a piston, the drill bit, and a drill bit bushing. In order to effectively seal the air cushion, a portion of the hammer end of the piston having an outermost diameter is located inside the drill bit bushing.

- 2. Regarding the prior art, particularly Wolfer (5,566,771), an air chamber is formed in a pneumatic down-the-hole drill by a hammer end of the piston, the drill bit, and a drill bushing. However, the outermost diameter of the hammer end of the piston is never located inside the drill bit bushing. Instead, the upper edge of the drill bit bushing forms a stop for the piston. In other words, the piston can not reciprocate inside the drill bit bushing.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LINDSAY M. LOW whose telephone number is (571)272-1196. The examiner can normally be reached on Monday thru Friday 7:30 to 5:00.

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Art Unit: 3721

5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rinaldi Rada can be reached on 571-272-4467. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

6. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/L. M. L./

Examiner, Art Unit 3721

/Rinaldi I Rada/

Supervisory Patent Examiner, Art Unit 3721